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2	Tiered access to integrated rating system	707/5
3	Software and method for teaching, learning, and creating and relaying an account	709/207
4	Wave lens systems and methods for search results	715/810
5	Presentation of media content from multiple media sources	725/43
6	On-line virtual catalogue or flyer	705/27
7	Data communication facilitating	370/442
8	Automatic selection of content-delivery provider using link mapping database	709/246
9	Internet presentation system	715/731
10	Fragment response cache	709/203
11	System for utilizing audible, visual and textual data with alternative combinable multimedia forms of presenting information for real-time interactive use by multiple users in differnet remote environments	707/104.1
12	System and method for online feedback	707/9

	Title	Current OR
13	Apparatus and method for providing access rights information on computer accessible content	709/229
14	System and method for converting an attachment in an e-mail for delivery to a device of limited rendering capability	709/246
15	System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility	290/44
16	Method and system for providing web links	707/1
17	Data capture and relay terminal with temperature sensor	348/211.3
18	Data capture and relay device including camera and physical data sensor	348/207.1
19	Media content search engine incorporating text content and user log mining	707/3
20	System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility	700/286
21	System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility	290/44

	Title	Current OR
22	Configurable transformation of electronic documents	715/518
23	System and method for creating, generating and processing user-defined generic specs	715/500
24	System and method for multimedia content composition and distribution	709/219
25	PORTABLE INTERNET SERVER TERMINAL	348/220.1

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L1	80	west same browser	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:21
L2	22	1 & segment$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:22
L3	86	715/518	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:23
L4	7	3 & (segment$3 pars$3 extract$3) & transform$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:25
L5	2	((mobile pervasive thin) adj (device$1 cliemt$1)) & (proxy adj server$1) & ((revis$4 shorten$4 truncat$4 reduc$4) near text)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:28
L6	29915	((mobile pervasive thin) adj (device$1 cliemt$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:28
L7	46	6 & ((revis$4 shorten$4 truncat$4 reduc$4) near text)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:29

EAST Search History

L8	35911	((mobile pervasive thin) adj (device$1 client$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:29
L9	59	8 & ((revis$4 shorten$4 truncat$4 reduc$4) near text)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:30
L10	5	9 & (link$3 same forward$3 same backward$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 11:30

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Relevance scale

1 A unified component framework for dynamically extensible virtual environments

Andrzej Kapolka, Don McGregor, Michael Capps

September 2002 **Proceedings of the 4th international conference on Collaborative virtual environments**

Publisher: ACM Press

Full text available: pdf(129.03 KB) Additional Information: full citation, abstract, references, citings, index terms

If large-scale shared virtual worlds are to be established on the Internet, they must be based on technologies that allow them to adapt, scale, and evolve continuously-that is, without their being taken offline. In the course of designing NPSNET-V, an architecture intended to satisfy these criteria through component-based dynamic extensibility, the authors recognized the need for a consistent, unified component framework. This framework, which they implemented in Java™, allows one to const ...

Keywords: Java, XML, component-based architectures, dynamic extensibility, networked virtual environments

2 XACDML- Extensible ACD Markup Language

Jose Nilton Gil, Celso M Hirata

March 2003 **Proceedings of the 36th annual symposium on Simulation**

Publisher: IEEE Computer Society

Full text available: pdf(147.08 KB) Additional Information: full citation, abstract, index terms

Extensible Markup Language (XML) is a meta-language,used to create generalized markup languages. ActiveCycle Diagrams are a specification language to describediscrete event models and it has been deployed in manysimulation software environments. This work presents aspecification for an XML for simulation models by usingActive Cycle Diagrams, named eXtensible Activity CycleDiagram Markup Language (XACDML). XACDML isdesigned to allow easy exchange of simulation modelinformation on the Internet. Wi ...

3 Future of simulation: Simulation standards: current status, needs, future directions, panel: simulation standards: current status, needs, and future directions

Charles McLean, Swee Leong, Charley Harrell, Philomena M. Zimmerman, Roberto F. Lu

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference
Full text available: pdf(276.74 KB) Additional Information: full citation, abstract, references, citings

How could the manufacturing modeling and simulation process be improved? Today simulation analysts typically code their models from scratch and build custom data translators to import required data. Manufacturing simulations often are built as single monolithic software systems. The development of neutral, vendor-independent data formats for storing simulation models and transferring data could greatly improve the accessibility of simulation technology to industry. Simulation standards for th ...

4 Computer-supported collaborative video analysis
Roy Pea, Robb Lindgren, Joseph Rosen
June 2006 **Proceedings of the 7th international conference on Learning sciences ICLS '06**
Publisher: International Society of the Learning Sciences
Full text available: pdf(349.63 KB) Additional Information: full citation, abstract, references

Video can serve as a powerful medium for analyzing interactions involved in learning activities, for capturing records of teaching for uses in professional development, and for learners to construct or interact with videos expressively, but there have been many barriers to its collaborative uses. The DIVER Project is tackling core problems in advancing computer-supported collaborative video analysis. DIVER establishes a unique video platform for users to control a "virtual camera window" on a co ...

5 Image Retrieval II: A web-based evaluation system for CBIR
Henning Müller, Wolfgang Müller, David Squire
September 2001 **Proceedings of the 2001 ACM workshops on Multimedia: multimedia information retrieval**
Publisher: ACM Press
Full text available: pdf(684.81 KB) Additional Information: full citation, abstract, references, citings, index terms

This papers describes a benchmark test for content-based image retrieval systems (CBIRSs) with the query by example (QBE) query paradigm. This benchmark is accessible via the Internet and thus allows to evaluate any CBIRS which is compliant with Multimedia Retrieval Markup Language (MRML) for query formulation and result transmission. Thus it allows a quick and easy comparison between different features and algorithms for CBIRSs. The benchmark is based on a standardized communication protocol to ...

6 Visualization for libraries: Exploring digital libraries: integrating browsing, searching, and visualization
Rao Shen, Naga Srinivas Vemuri, Weiguo Fan, Ricardo da S. Torres, Edward A. Fox
June 2006 **Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries JCDL '06**
Publisher: ACM Press
Full text available: pdf(628.05 KB) Additional Information: full citation, abstract, references, index terms

Exploring services for digital libraries (DLs) include two major paradigms, browsing and searching, as well as other services such as clustering and visualization. In this paper, we formalize and generalize DL exploring services within a DL theory. We develop theorems to indicate that browsing and searching can be converted or mapped to each other under certain conditions. The theorems guide the design and implementation of exploring services for an integrated archaeological DL, ETANA-DL. Its in ...

Keywords: browsing, exploring, integration, searching, visualization

7 Data collections and MM: 3D MURALE: a multimedia system for archaeology

John Cosmas, Take Itegaki, Damian Green, Edward Grabczewski, Fred Weimer, Luc Van Gool, Alexy Zalesny, Desi Vanrintel, Franz Leberl, Markus Grabner, Konrad Schindler, Konrad Karner, Michael Gervautz, Stefan Hynst, Marc Waelkens, Marc Pollefeys, Roland DeGeest, Robert Sablatnig, Martin Kampel

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Publisher: ACM Press

Full text available: pdf(159.52 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper introduces the 3D Measurement and Virtual Reconstruction of Ancient Lost Worlds of Europe system (3D MURALE). It consists of a set of tools for recording, reconstructing, encoding, visualising and database searching/querying that operate on buildings, building parts, statues, statue parts, pottery, stratigraphy, terrain geometry and texture and material texture. The tools are loosely linked together by a common database on which they all have the facility to store and access data. The ...

8 Visualization 1: The sandbox for analysis: concepts and Eevaluation

William Wright, David Schroh, Pascale Proulx, Alex Skaburskis, Brian Cort

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, index terms

The Sandbox is a flexible and expressive thinking environment that supports both ad-hoc and more formal analytical tasks. It is the evidence marshalling and sense-making component for the analytical software environment called nSpace. This paper presents innovative Sandbox human information interaction capabilities and the rationale underlying them including direct observations of analysis work as well as structured interviews. Key capabilities for the Sandbox include "put-this-there" cognition, ...

Keywords: gestures, information visualization, sense making, user-centered design, visual analytics

9 Information technology and physical space

Henry C. Lucas

November 2001 **Communications of the ACM**, Volume 44 Issue 11

Publisher: ACM Press

Full text available: pdf(122.14 KB) html(42.79 KB) Additional Information: full citation, references, index terms

10 Component framework infrastructure for virtual environments

Manuel Oliveira, Jon Crowcroft, Mel Slater

September 2000 **Proceedings of the third international conference on Collaborative virtual environments**

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings, index terms

Virtual Environments (VE) present a complex problem with interesting non-trivial challenges for system development, in particular when the VE is distributed and shared amongst multiple participants. Most problems are common to any VE system, however the development effort is replicated because current systems are neither evolutionary nor

allow integration of code across different systems. This paper presents the Java Adaptive Dynamic Environment (JADE), which consists of a light- ...

Keywords: components, framework, java, virtual environments, virtual reality, vrtp

11 Design: static pages are dead: how a modular approach is changing interaction design

September 2001 **interactions**, Volume 8 Issue 5

Publisher: ACM Press

Full text available: pdf(300.56 KB) html(24.94 KB) Additional Information: full citation, citings, index terms

12 E-marketing & e-businesses: Some methods to depress the risks of the online transactions

Haixia Tan, Jianfeng Guo

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available: pdf(319.35 KB) Additional Information: full citation, abstract, references, index terms

In comparison, the Internet is indeed more efficient. But the realistic situation is that most consumers are unwilling to be engaged in e-commerce, because they fear that they will meet with the risks of the online transactions. These risks can come from many aspects, such as the privacy issues, e-commerce technology, lack of reliability in e-commerce processes, the lack of the social, financial and legal infrastructures of the e-commerce environment and so on. This paper has presented a wide ra ...

Keywords: alternative dispute resolution, privacy strategies, reputation systems, risks of the online transactions, security strategies

13 Workshop on software engineering decision support: components: Visualisation for informed decision making; from code to components

Stuart M. Charters, Claire Knight, Nigel Thomas, Malcolm Munro

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available: pdf(459.33 KB) Additional Information: full citation, abstract, references

The problem of trying to view and comprehend large amounts of data is a well-known one. A specialised variant of this problem is the visualisation of software code and components for the purposes of understanding, decision-making, reuse and even integration. In particular the visualisation of software components, at a much higher level than source code, has received very little research. Visualisation is a powerful tool in situations such as this. This paper presents the application of real worl ...

14 Architecture & distributed systems & e-commerce: Role of the resource broker in the Grid

Enis Afgan

April 2004 **Proceedings of the 42nd annual Southeast regional conference**

Publisher: ACM Press

Full text available: pdf(185.12 KB) Additional Information: full citation, abstract, references, index terms

Today, as Grid Computing is becoming a reality, there is a need for managing and monitoring the available resources worldwide, as well as the need for conveying these resources to the everyday user. This paper describes a resource broker with its main function being to match the available resources to the user's requests. The use of the resource broker provides a uniform interface to access any of the available and appropriate resources using user's credentials. This paper discusses the process ...

Keywords: globus toolkit, resource broker, the Grid

15 Grounding spatial named entities for information extraction and question answering

Jochen L. Leidner, Gail Sinclair, Bonnie Webber

May 2003 **Proceedings of the HLT-NAACL 2003 workshop on Analysis of geographic references - Volume 1**

Publisher: Association for Computational Linguistics

Full text available: pdf(444.79 KB) Additional Information: full citation, abstract, references

The task of named entity annotation of unseen text has recently been successfully automated with near-human performance.But the full task involves more than annotation, i.e. identifying the scope of each (continuous) text span and its class (such as place name). It also involves grounding the named entity (i.e. establishing its denotation with respect to the world or a model). The latter aspect has so far been neglected.In this paper, we show how geo-spatial named entities can be grounded using ...

16 Succinct representation of flexible and privacy-preserving access rights

Marina Blanton, Mikhail Atallah

September 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(525.96 KB) Additional Information: full citation, abstract

We explore the problem of portable and flexible privacy preserving access rights that permit access to a large collection of digital goods. *Privacy-preserving* access control means that the service provider can neither learn what access rights a customer has nor link a request to access an item to a particular customer, thus maintaining privacy of both customer activity and customer access rights. *Flexible* access rights allow a customer to choose a subset of items or groups of items ...

Keywords: Compact representation, Flexible access rights, Privacy-preserving access rights

17 Distributed data sources: Exploiting online sources to accurately geocode addresses

Rahul Bakshi, Craig A. Knoblock, Snehal Thakkar

November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, index terms

Many Geographic Information System (GIS) applications require the conversion of an address to geographic coordinates. This process is called geocoding. The traditional geocoding method uses a street vector data source, such as, Tigerlines, to obtain address range and coordinates of the street segment on which the given address is located. Next, an approximation technique is used to estimate the location of the given address using the address range of the selected street segment. However, this ...

Keywords: geocoder, geospatial data integration, information integration, mediator

18 Workshop and conference summaries: Software engineering for large-scale multi-agent systems - SELMAS 2004: workshop report

Ricardo Choren, Alessandro Garcia, Carlos Lucena, Martin Griss, David Kung, Naftaly Minsky, Alexander Romanovsky, Jaelson Castro, Rogério de Lemos, Danny Weyns
September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: pdf(238.96 KB) Additional Information: full citation, abstract, references

This paper is intended to sum up the results of the Third International Workshop on Software Engineering for Large-Scale Multi-Agent System (SELMAS 2004) held in Edinburgh, Scotland, May 24--25, 2004, as part of the International Conference on Software Engineering (ICSE 2004). The main purpose of this workshop was to share and pool the collective experience of people, both academics and practitioners, who are actively working on software engineering for large-scale multi-agent systems. The call ...

19 Computer applications in health care (CAHC): A relational approach to the capture of DICOM files for Grid-enabled medical imaging databases

David Power, Eugenia Politou, Mark Slaymaker, Steve Harris, Andrew Simpson
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(236.78 KB) Additional Information: full citation, abstract, references, index terms

The Standard for Digital Imaging and Communications in Medicine (DICOM) specifies a non-proprietary digital imaging format, file structure and data interchange protocols for the transfer of biomedical images and non-image data related to such images--it is a specification of the components that are required in order to achieve inter-operability between biomedical imaging computer systems. In this paper we describe how a Grid-enabled medical imaging database---eDiaMoND--employs an object-relation ...

Keywords: DICOM, databases, mammography, medical imaging

20 Data security and protection: Rights protection for relational data

Radu Sion, Mikhail Atallah, Sunil Prabhakar
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press
Full text available: pdf(229.76 KB) Additional Information: full citation, abstract, references, citings, index terms

Protecting rights over relational data is of ever increasing interest, especially considering areas where sensitive, valuable content is to be outsourced. A good example is a data mining application, where data is sold in pieces to parties specialized in mining it.Different avenues for rights protection are available, each with its own advantages and drawbacks. Enforcement by legal means is usually ineffective in preventing theft of copyrighted works, *unless* augmented by a digital counter ...

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21 IOS standards in the insurance branch network: impact on market dynamics in the Netherlands

Alea Fairchild

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06**

Publisher: ACM Press

Full text available: pdf(398.03 KB) Additional Information: full citation, abstract, references, index terms

In the history of Dutch insurance, there has always been structural reliance on networks for economic reasons. How this networked environment, with its associated IOS standards, helps Dutch insurance firms create global advantage is the topic of this paper.We discuss the evolution of Dutch insurance, with a focus on the role of technology in changing the organizational structure of this industry. We examine the impact of interorganizational systems (IOS) on the operating environment, from specif ...

Keywords: globalization, insurance, interorganizational systems, standards, the Netherlands

22 We Talk to Everybody

Marjorie Richardson, Jason Schumaker, David Penn

June 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(96.53 KB) Additional Information: full citation, abstract, index terms

A quick look at some of the people who helped make Linux possible.

23 Foundations of multimedia database systems

Sherry Marcus, V. S. Subrahmanian

May 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 3

Publisher: ACM Press

Full text available: pdf(4.11 MB) Additional Information: full citation, abstract, references, citings, index terms

Though numerous multimedia systems exist in the commercial market today, relatively

little work has been done on developing the mathematical foundation of multimedia technology. We attempt to take some initial steps towards the development of a theoretical basis for a multimedia information system. To do so, we develop the motion of a structured multimedia database system. We begin by defining a mathematical model of a media-instance. A media-instance may be thought of as "glue" ...

Keywords: data structures, multimedia databases, query languages, query processing

24 Full papers: Privacy-preserving data integration and sharing

Chris Clifton, Murat Kantarcio□lu, AnHai Doan, Gunther Schadow, Jaideep Vaidya, Ahmed Elmagarmid, Dan Suciu

June 2004 **Proceedings of the 9th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery**

Publisher: ACM Press

Full text available: pdf(135.55 KB) Additional Information: full citation, abstract, references, index terms

Integrating data from multiple sources has been a longstanding challenge in the database community. Techniques such as privacy-preserving data mining promises privacy, but assume data has integration has been accomplished. Data integration methods are seriously hampered by inability to share the data to be integrated. This paper lays out a privacy framework for data integration. Challenges for data integration in the context of this framework are discussed, in the context of existing accomplishm ...

25 Virtual environment system layered object model

Manuel Oliveira

September 2004 **Proceedings of the 2004 ACM SIGCHI International Conference on Advances in computer entertainment technology ACE '04**

Publisher: ACM Press

Full text available: pdf(2.09 MB) Additional Information: full citation, abstract, references, index terms

The current development trend concerning online games and virtual environments has and continues to yield monolithic solutions, which are responsible for the wide proliferation of system implementations. However, there is much overlap of functionality, but the adopted design principles make reusability unfeasible, representing a significant waste of resources.This paper presents an alternative novel approach based on a layered object model, addressing the pitfalls associated to the existing syst ...

Keywords: component frameworks, cyberspace, online games, virtual environments

26 Towards a national infectious disease information infrastructure: a case study in West Nile virus and botulism

Daniel Zeng, Hsinchun Chen, Chunju Tseng, Catherine A. Larson, Millicent Eidson, Ivan Gotham, Cecil Lynch, Michael Ascher

May 2004 **Proceedings of the 2004 annual national conference on Digital government research dg.o '04**

Publisher: Digital Government Research Center

Full text available: pdf(284.11 KB) Additional Information: full citation, abstract, references

Information technologies are playing an increasingly important role in preventing, detecting, and managing infectious disease outbreaks. This paper presents a collaborative infectious disease informatics project led by an interdisciplinary team of information systems researchers and public health researchers and practitioners. This project has resulted in a research prototype called the WNV-BOT Portal system, which provides an integrated infectious disease information sharing, analysis, and visu ...

27 Research centers: The Indiana Center for Database Systems at Purdue University

Mourad Ouzzani, Walid G. Aref, Elisa Bertino, Ann Christine Catlin, Christopher W. Clifton, Wing-Kai Hon, Ahmed K. Elmagarmid, Arif Ghafoor, Susanne E. Hambrusch, Sunil Prabhakar, Jeffrey S. Vitter, Xiang Zhang

June 2005 **ACM SIGMOD Record**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(161.46 KB) Additional Information: full citation, abstract, references, index terms

The Indiana Center for Database Systems (ICDS) at Purdue University has embarked in an ambitious endeavor to become a premiere world-class database research center. This goal is substantiated by the diversity of its research topics, the large and diverse funding base, and the steady publication trend in top conferences and journals. ICDS was founded with an initial grant from the State of Indiana Corporation of Science and Technology in 1990. Since then it has grown to now have 9 faculty members ...

28 Virtual extension: Content preparation and management for e-commerce Web sites

Robert W. Proctor, Kim-Phuong L. Vu, Lawrence J. Najjar, Misha W. Vaughan, Gavriel Salvendy

December 2003 **Communications of the ACM**, Volume 46 Issue 12

Publisher: ACM Press

Full text available: pdf(279.42 KB) html(30.46 KB) Additional Information: full citation, references, index terms

29 Posters: Exploiting the deep web with DynaBot: matching, probing, and ranking

Daniel Rocco, James Caverlee, Ling Liu, Terence Critchlow

May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(107.26 KB) Additional Information: full citation, abstract, references, index terms

We present the design of Dynabot, a guided Deep Web discovery system. Dynabot's modular architecture supports focused crawling of the Deep Web with an emphasis on matching, probing, and ranking discovered sources using two key components: service class descriptions and source-biased analysis. We describe the overall architecture of Dynabot and discuss how these components support effective exploitation of the massive Deep Web data available.

Keywords: crawling, deep web, probing, service class

30 LAMP development at public sector web sites

Tom Adelstein

February 2004 **Linux Journal**, Volume 2004 Issue 118

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(19.75 KB) Additional Information: full citation, abstract

Government IT staff and open-source consultants are keeping public information open and accessible--and saving tax money too.

31 Modeling methodology b: XML-based modeling and simulation: meta-models are models too

Hans Vangheluwe, Juan de Lara

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference
Full text available: pdf(180.12 KB) Additional Information: full citation, abstract, references, citings

This article introduces multi-formalism modelling and meta-modelling to facilitate computer assisted modelling and simulation of complex systems. To aid in the automatic generation of multi-formalism modelling and simulation tools, formalisms are modelled in their own right, at a meta-level, within an appropriate formalism. This approach is implemented in the interactive tool ATOM³ (A Tool for Multi-formalism Meta-Modelling). This tool is used ...

32 Theoretical frameworks: A model for abstract process specification, verification and composition

Ziyang Duan, Arthur Bernstein, Philip Lewis, Shiyong Lu
November 2004 **Proceedings of the 2nd international conference on Service oriented computing**
Publisher: ACM Press
Full text available: pdf(231.48 KB) Additional Information: full citation, abstract, references, index terms

An abstract business process contains a description the protocol that a business process engages in without revealing the internal computation of the process. This description provides the information necessary to compose the process with other Web services. BPEL supports this by providing distinct dialects for specifying abstract and executable processes. Unfortunately, BPEL does not prevent complex computations from being included in an abstract process. This complicates the protocol descri ...

Keywords: BPEL abstract process, web services

33 Storm stories: surviving an upgrade to WebCT Vista

Kathryn Fletcher
November 2005 **Proceedings of the 33rd annual ACM SIGUCCS conference on User services SIGUCCS '05**
Publisher: ACM Press
Full text available: pdf(270.38 KB) Additional Information: full citation, abstract, index terms

West Virginia University recently upgraded from WebCT Campus Edition 3.8 to WebCT Vista 3.0, hosting multiple regional campuses on the same server. WVU went live with hosting four institutions on a single instance of WebCT Vista in January 2005; the main campus in Morgantown was simultaneously integrated with its SCT Banner student information system. This enterprise-level software upgrade required a significant investment of resources and contributed to a reorganization of our instructional sys ...

Keywords: SCT banner integration, WebCT Vista, WebCT migration, project planning, software upgrade

34 Dynamically distributed query evaluation

Trevor Jim, Dan Suciu
May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**
Publisher: ACM Press
Full text available: pdf(276.64 KB) Additional Information: full citation, references, citings, index terms

35 IR-1 (information retrieval): information retrieval models: Simple BM25 extension to multiple weighted fields

Stephen Robertson, Hugo Zaragoza, Michael Taylor
November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**
Publisher: ACM Press
Full text available: pdf(205.08 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a simple way of adapting the BM25 ranking formula to deal with structured documents. In the past it has been common to compute scores for the individual fields (e.g. title and body) independently and then combine these scores (typically linearly) to arrive at a final score for the document. We highlight how this approach can lead to poor performance by breaking the carefully constructed non-linear saturation of term frequency in the BM25 function. We propose a much more i ...

36 Privacy control: Purpose based access control of complex data for privacy protection
Ji-Won Byun, Elisa Bertino, Ninghui Li
June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**
Publisher: ACM Press
Full text available: pdf(223.59 KB) Additional Information: full citation, abstract, references, index terms

As privacy becomes a major concern for both consumers and enterprises, many research efforts have been devoted to the development of privacy protecting technology. We recently proposed a privacy preserving access control model for relational databases,where purpose information associated with a given data element specifies the intended use of the data element. In this paper, we extend our previous work to handle other advanced data managementsystems, such as the ones based on XML and the ones ba ...

Keywords: access control, management, privacy, private data, purpose, role attributes

37 The architecture of a UML virtual machine
Dirk Riehle, Steven Fraleigh, Dirk Bucka-Lassen, Nosa Omorogbe
October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11
Publisher: ACM Press
Full text available: pdf(180.24 KB) Additional Information: full citation, abstract, references, citings, index terms

Current software development tools let developers model a software system and generate program code from the models to run the system. However, generating code and installing a non-trivial system induces a time delay between changing the model and executing it that makes rapid model prototyping awkard if not impossible. This paper presents the architecture of a virtual machine for UML that interprets UML models without any intermediate code-generation step. The paper shows how to embed UML in a ...

38 Advanced interaction design: short papers: On the visualization of large-sized ontologies
Yannis Tzitzikas, Jean-Luc Hainaut
May 2006 **Proceedings of the working conference on Advanced visual interfaces AVI '06**
Publisher: ACM Press
Full text available: pdf(177.17 KB) Additional Information: full citation, abstract, references, index terms

The visualization of ontologies and metadata is a challenging issue with several applications not only in the Semantic Web but also in Software Engineering, Database

Design and Artificial Intelligence. This paper aims at identifying and analyzing the more principal aspects of this problem, surveying some of the work that has been done so far, and at proposing novel ideas that are worth further research and investigation. In particular, it describes the main factors that determine whether an onto ...

39 Meeting experience: MediÆther: an event space for context-aware multimedia experiences

Susanne Boll, Utz Westermann

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence**

Publisher: ACM Press

Full text available: pdf(357.64 KB) Additional Information: full citation, abstract, references, citings, index terms

Today, more and more events of interest all over the world such as press conferences, rock concerts, soccer matches, breaking news, etc. become available on the Internet as multimedia content like pictures, video and audio streams, or web pages. These events are bound not only to a certain topic but also to their location and time. The questions is how recent multimedia events from all over the world can be made available and "experienceable" to people considering their different personal contex ...

Keywords: multimedia event distribution and notification, peer-to-peer

40 General applications and methodology: General methodology 2: enabling large scale and high definition simulation of natural systems with vector models and JDEVS

Jean-Baptiste Filippi, Paul Bisgambiglia

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available: pdf(236.92 KB) Additional Information: full citation, abstract, references

This paper describes a new methodology to enable large scale high resolution environmental simulation. Unlike the vast majority of environmental modeling techniques that split the space into cells, the use of a vector space is proposed here. A phenomena will then be described by its shape, decomposed in several points that can move using a displacement vector. The shape also have a dynamic structure, as each point can instantiate new point because of a change in the space properties or to obt ...

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Relevance scale

41 Adaptive complex enterprises: Test beds for complex systems

Albert Jones, Abhijit Deshmukh
May 2005 **Communications of the ACM**, Volume 48 Issue 5
Publisher: ACM Press
Full text available: pdf(200.17 KB) html(29.72 KB) Additional Information: full citation, abstract, references, citings, index terms

Global competition requires major manufacturers to increase productivity, quality, and responsiveness while simultaneously decreasing costs and time to market. To achieve these seemingly conflicting requirements, many manufacturers have expanded the outsourcing trends that began in the late 1980s. Now, design, engineering, logistics, as well as production, are outsourced to companies located all over the world.

42 Education: A tool for incorporating unit testing into a Java programming curriculum

Colin Depradine, Julian Arthur
June 2004 **Proceedings of the 3rd international symposium on Principles and practice of programming in Java PPPJ '04**
Publisher: Trinity College Dublin
Full text available: pdf(236.42 KB) Additional Information: full citation, abstract, references

In the development of object-oriented programming courses, an often overlooking but important area is testing. Generally, testing is formally introduced in software engineering courses and may not form part of the practical aspects of a programming course. As a result, this concept can play a de-emphasized role during the presentation of the course material. To counteract this problem, the HF2 (Highly Extendable and Flexible) unit testing framework was created. Its primary focus is the incorpora ...

Keywords: Java, frameworks, unit testing

43 Mobile usability: Usability benchmarking case study: media downloads via mobile phones in the US

Richard Martin, Scott Weiss
September 2006 **Proceedings of the 8th conference on Human-computer interaction with mobile devices and services MobileHCI '06**
Publisher: ACM Press
Full text available: pdf(281.73 KB) Additional Information: full citation, abstract, references, index terms

In spring 2004 Usable Products Company set to study the shopping, purchase, and assignment process for mobile media (wallpaper, ring tones and games for mobile phones) in the US market. A large scale (200 initial interviews followed by an additional 60) study covering 5 major US carriers and 13 handsets was conducted between 2004 and 2005 to benchmark the usability of mobile media purchase process. In this paper, we describe the goals, procedures, timeline, and results of this project with parti ...

Keywords: download, game, handheld, media, mobile, phone, ring, ringtone, tone, usability, wallpaper

44 Ubiquitous computing (UC): Route profiling: putting context to work

Anthony Harrington, Vinny Cahill
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(232.60 KB) Additional Information: full citation, abstract, references, index terms

Intelligent Transportation Systems are characterised by a requirement for detailed information on extensive transport networks. This information is typically gathered from sensors deployed throughout the network and is used for management and maintenance operations.In this paper we present the design and prototype implementation of a context-aware route profiling application intended for use by road management authorities in the Republic of Ireland. Our design allows data from a variety of sourc ...

Keywords: ITS, context-aware, ubiquitous computing

45 B2B e-commerce and enterprise integration: E-procurement assimilation: an assessment of e-business capabilities and supplier readiness in the Australian public sector

Kishor Vaidya, A. S. M. Sajeev, Junbin Gao
August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**
Publisher: ACM Press
Full text available: pdf(364.87 KB) Additional Information: full citation, abstract, references, index terms

As part of a larger research project whose objective was to determine the antecedent condition for e-Procurement assimilation, this paper assesses the organizational e-Business capabilities and supplier readiness in the Australian public sector. With the help of an extensive literature review and pilot study, organizational e-Business capabilities and supplier e-Business readiness factors were identified, a research model was developed and hypotheses were formulated. Based on the Resource-based ...

Keywords: assimilation, e-business capabilities, e-procurement, readiness, supplier

46 Multi Relational Data Mining (MRDM): Scalability and efficiency in multi-relational data mining

Hendrik Blockeel, Michèle Sebag
July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1
Publisher: ACM Press
Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, citings

Efficiency and Scalability have always been important concerns in the field of data mining, and are even more so in the multi-relational context, which is inherently more complex. The issue has been receiving an increasing amount of attention during the last few years,

and quite a number of theoretical results, algorithms and implementations have been presented that explicitly aim at improving the efficiency and Scalability of multi-relational data mining approaches. With this article we attempt ...

47 Demonstrations: BioPortal: a case study in infectious disease informatics

Daniel Zeng, Hsinchun Chen, Chunju Tseng, Wei Chang, Millicent Eidson, Ivan Gotham, Cecil Lynch

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(186.65 KB) Additional Information: full citation, abstract, references, index terms

We present the BioPortal system, an integrated cross-jurisdictional data sharing and analysis environment to facilitate detection, prevention, and management of infectious disease outbreaks.

Keywords: bioterrorism response, infectious disease, public health

48 Late breaking results: posters: Visualization in law enforcement

Hsinchun Chen, Homa Atabakhsh, Chunju Tseng, Byron Marshall, Siddharth Kaza, Shauna Eggers, Hemanth Gowda, Ankit Shah, Tim Petersen, Chuck Violette

April 2005 **CHI '05 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, index terms

Visualization techniques have proven to be critical in helping crime analysis. By interviewing and observing Criminal Intelligence Officers (CIO) and civilian crime analysts at the Tucson Police Department (TPD), we found that two types of tasks are important for crime analysis: crime pattern recognition and criminal association discovery. We developed two separate systems that provide automatic visual assistance on these tasks. To help identify crime patterns, a Spatial Temporal Visualization (...

Keywords: association network, crime analysis, crime network, law enforcement, social network analysis, spatial and temporal visualization

49 Interrogative theory of information and knowledge

Edward J. Quigley, Anthony Debons

April 1999 **Proceedings of the 1999 ACM SIGCPR conference on Computer personnel research**

Publisher: ACM Press

Full text available: pdf(832.32 KB) Additional Information: full citation, references, index terms

Keywords: Brookes, Debons, Knowgs, Popper, Shannon, Weaver, data, information, informs, interrogatives, knowledge

50 System demonstrations (a): BioPortal: an integrated infectious disease information sharing and analysis environment

Daniel Zeng, Hsinchun Chen, Chunju Tseng, Catherine A. Larson, Millicent Eidson, Ivan Gotham, Cecil Lynch, Michael Ascher

May 2005 **Proceedings of the 2005 national conference on Digital government research dg.o2005**

Publisher: Digital Government Research Center

Full text available: pdf(152.47 KB) Additional Information: full citation, abstract, index terms

We present the BioPortal system, an integrated cross-jurisdictional data sharing and analysis environment to facilitate detection, prevention, and management of infectious disease outbreaks.

Keywords: bioterrorism response, infectious disease, public health

51. Variational Message Passing
John Winn, Christopher M. Bishop
September 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: pdf(456.23 KB) Additional Information: full citation, abstract

Bayesian inference is now widely established as one of the principal foundations for machine learning. In practice, exact inference is rarely possible, and so a variety of approximation techniques have been developed, one of the most widely used being a deterministic framework called variational inference. In this paper we introduce Variational Message Passing (VMP), a general purpose algorithm for applying variational inference to Bayesian Networks. Like belief propagation, VMP proceeds by send ...

52 Arts session 1: installations and media archaeology: Instant archaeologies: digital lenses to probe and to perforate the urban fabric
Petra Gemeinboeck, Atau Tanaka, Andy Dong
October 2006 **Proceedings of the 14th annual ACM international conference on Multimedia MULTIMEDIA '06**
Publisher: ACM Press
Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, index terms

The paper discusses the digital artwork series *Impossible Geographies*, works that weave dynamic cartographies of invisible, fragile and hybrid spaces. *Impossible Geographies 01: Memory* invokes the memory space of a gallery, producing cracks through which past events seep into the physical present. *Net_Dérive* negotiates the space between a gallery and its urban neighborhood, creating hybrid narratives along the grooves left by participants equipped with mobile pho ...

Keywords: digital cartography, locative media, memory, mobile phone, narrative, negotiation, urban fabric

53 Manufacturing applications: Simulation in automotive industries: reducing human error in simulation in General Motors
Demet Wood, Echo A. Harger
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Publisher: Winter Simulation Conference
Full text available: pdf(249.89 KB) Additional Information: full citation, abstract, references

This paper focuses on the steps taken to minimize human error in simulation modeling in General Motors. While errors are costly and undesirable in any field, they are especially harmful in simulation which has been struggling to gain acceptance in the business world for a long time. The solution discussed in this paper can be summarized as "enter the data once and use the best tool for the job."

54 Editorial

Yu-Chee Tseng, Sandeep K. S. Gupta, Wang-Chien Lee, Pradip K. Srimani
March 2003 **Wireless Networks**, Volume 9 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(51.31 KB) Additional Information: full citation, index terms

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